<u>AMENDMENTS TO THE CLAIMS</u>

The listing of claims will replace all prior versions, and listings, of claims in the

application:

<u>Listing of Claims:</u>

Claims 1-6.   (Cancelled).

Claim 7.   (New) A communication system comprising a first communication

apparatus and a second communication apparatus, wherein

the first communication apparatus comprises:

means for generating a signal which has a frame comprising a plurality of slots and

includes one or more known pilot symbols and one or more sync words for frame

synchronization in each of the slots: and

means for transmitting the signal, and

the second communication apparatus comprises:

means for receiving the signal;

means for carrying out coherent detection by using the pilot symbols included in the

signal; and

means for establishing frame synchronization by using the sync words included in the

signal.

Claim 8.   (New) The communication system as claimed in claim 7, wherein the first

communication apparatus is a base station and the second communication apparatus is a mobile

station, or the first communication apparatus is a mobile station and the second communication

apparatus is a base station.

Claim 9.   (New) A communication apparatus comprising:

means for generating a signal which has a frame comprising a plurality of slots and includes one

or more known pilot symbols and one or more sync words for frame synchronization in each of

the slots; and

means for transmitting the signal.

Claim 10.   (New) The communication apparatus as claimed in claim 9, wherein the

means for generating includes a pilot symbol portion and a sync word portion alternately at fixed

intervals in each of the slots in the signal.

Claim 11.   (New) A communication apparatus comprising:

means for receiving a signal which has a frame comprising a plurality of slots and includes one

or more known pilot symbols and one or more sync words for frame synchronization in each of

the slots;

means for carrying out coherent detection by using the pilot symbols included in the

signal; and

means for establishing frame synchronization by using the sync words included in the

signal.

Claim 12.   (New) The communication apparatus as claimed in claim 11, wherein the means for carrying out coherent detection carries out coherent detection by also using the sync words after the frame synchronization is established.

Claim 13.   (New) A communication method at a communication system comprising a first communication apparatus and a second communication apparatus, comprising the steps of:

generating, at the first communication apparatus, a signal which has a frame comprising a plurality of slots and includes one or more known pilot symbols and one or more sync words for frame synchronization in each of the slots;

transmitting the signal at the first communication apparatus;

receiving the signal at the second communication apparatus;

carrying out, at the second communication apparatus, coherent detection by using the pilot symbols included in the signal; and

establishing, at the second communication apparatus, frame synchronization by using the sync words included in the signal.

Claim 14.   (New) A communication method comprising the steps of:

generating a signal which has a frame comprising a plurality of slots and includes one or more known pilot symbols and one or more sync words for frame synchronization in each of the slots; and

transmitting the signal.

Claim 15.   (New) A communication method comprising the steps of:

receiving a signal which has a frame comprising a plurality of slots and includes one or more known pilot symbols and one or more sync words for frame synchronization in each of the slots;

carrying out coherent detection by using the pilot symbols included in the signal; and

establishing frame synchronization by using the sync words included in the signal.

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